

MONTANA NATURAL RESOURCES CONSERVATION SERVICE  
GOVERNOR'S DROUGHT ADVISORY COMMITTEE REPORT

July 19, 2007



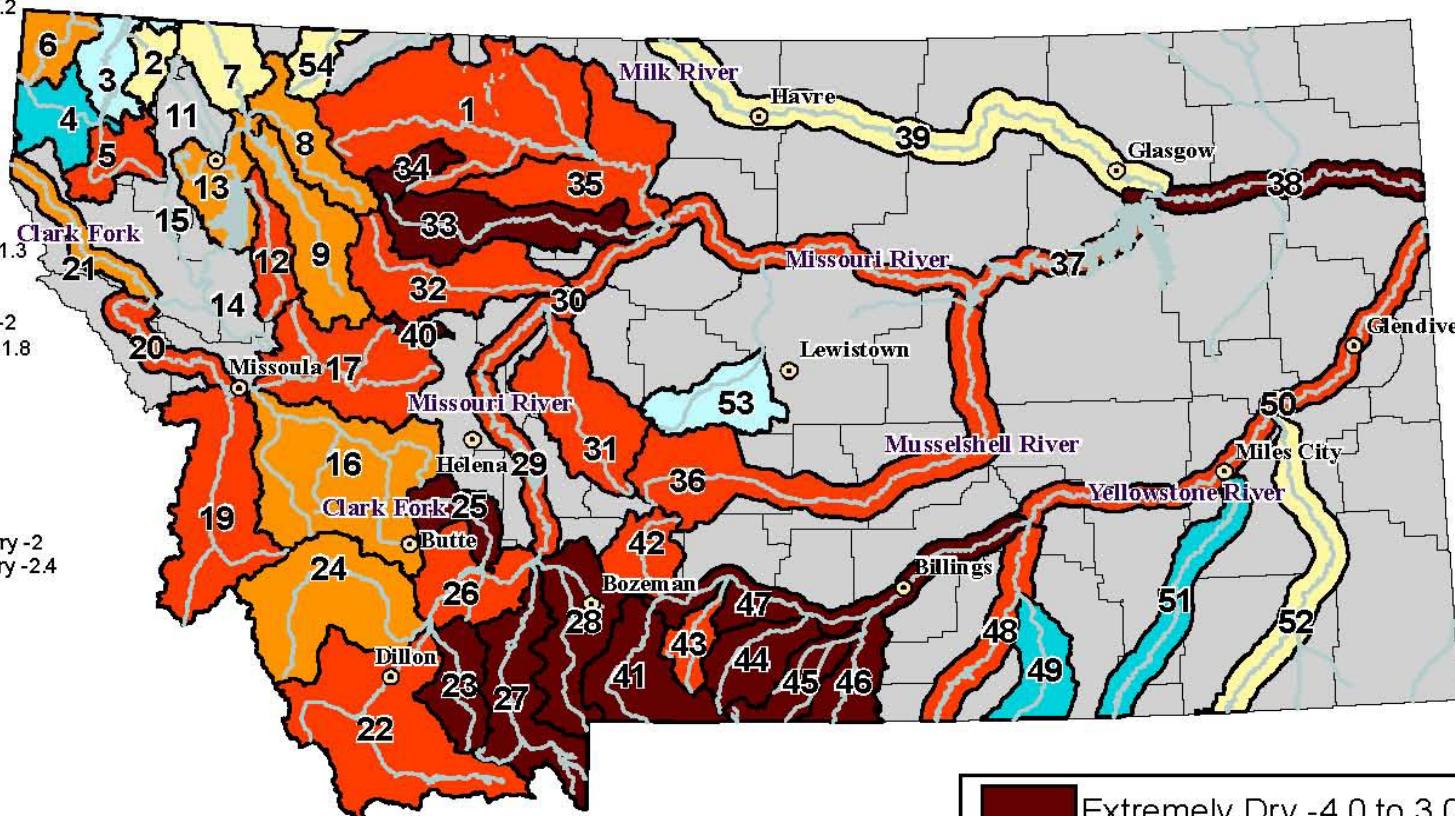
## RIVER INDEX &amp; SWSI VALUES

- 1 Marias above Tiber Reservoir -2  
 2 Tobacco -0.6  
 3 Kootenai Ft. Steele to Libby Dam 1.8  
 4 Kootenai below Libby Dam 2.2  
 5 Fisher -2.9  
 6 Yaak -1.2  
 7 North FK. Flathead 0.2  
 8 Middle FK. Flathead -1.7  
 9 South FK. Flathead -1.8  
 12 Swan -2.2  
 13 Flathead at Polson -1.6  
 14 Mission Valley  
 15 Little Bitterroot  
 16 Clark Fork above Milltown -1.3  
 17 Blackfoot -2.2  
 19 Bitterroot -2.6  
 20 Clark Fork below Bitterroot -2  
 21 Clark Fork below Flathead -1.8  
 22 Beaverhead -2.6  
 23 Ruby -3.7  
 24 Big Hole -1.5  
 25 Boulder (Jefferson) -3.1  
 26 Jefferson -2.1  
 27 Madison -3.9  
 28 Gallatin -3.1  
 29 Missouri above Canyon Ferry -2  
 30 Missouri below Canyon Ferry -2.4  
 31 Smith -2.5  
 32 Sun -2.6  
 33 Teton -3.4  
 34 Birch/Dupuyer Creeks -3.8  
 35 Marias -2.4  
 36 Musselshell -2.6  
 37 Missouri above Fort Peck -2  
 38 Missouri below Fort Peck -4  
 39 Milk 0  
 40 Dearborn near Craig -3.8  
 41 Yellowstone above Livingston -3.5  
 42 Shields -2.1  
 43 Boulder (Yellowstone) -2.8  
 44 Stillwater -3.6  
 45 Rock/Red Lodge Creeks -3.1  
 46 Clarks Fork -3.3  
 47 Yellowstone above Bighorn -3.4  
 48 Bighorn below Bighorn Lake -2.3  
 49 Little Bighorn 2.3  
 50 Yellowstone below Bighorn -2.9  
 51 Tongue 2.7  
 52 Powder 0.2  
 53 Upper Judith River 1.2  
 54 Saint Mary River -0.4

**Surface Water Supply Index (SWSI) Values**

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

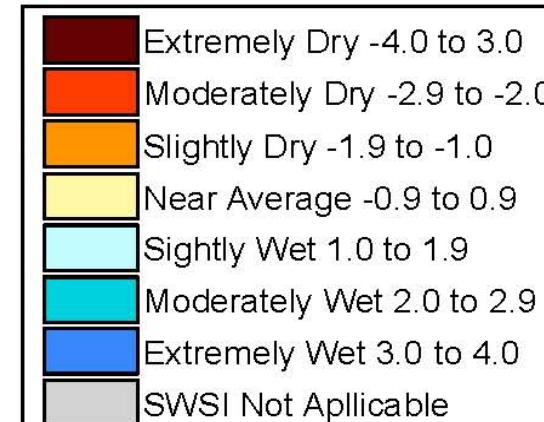


**Current as of  
July 1, 2007**

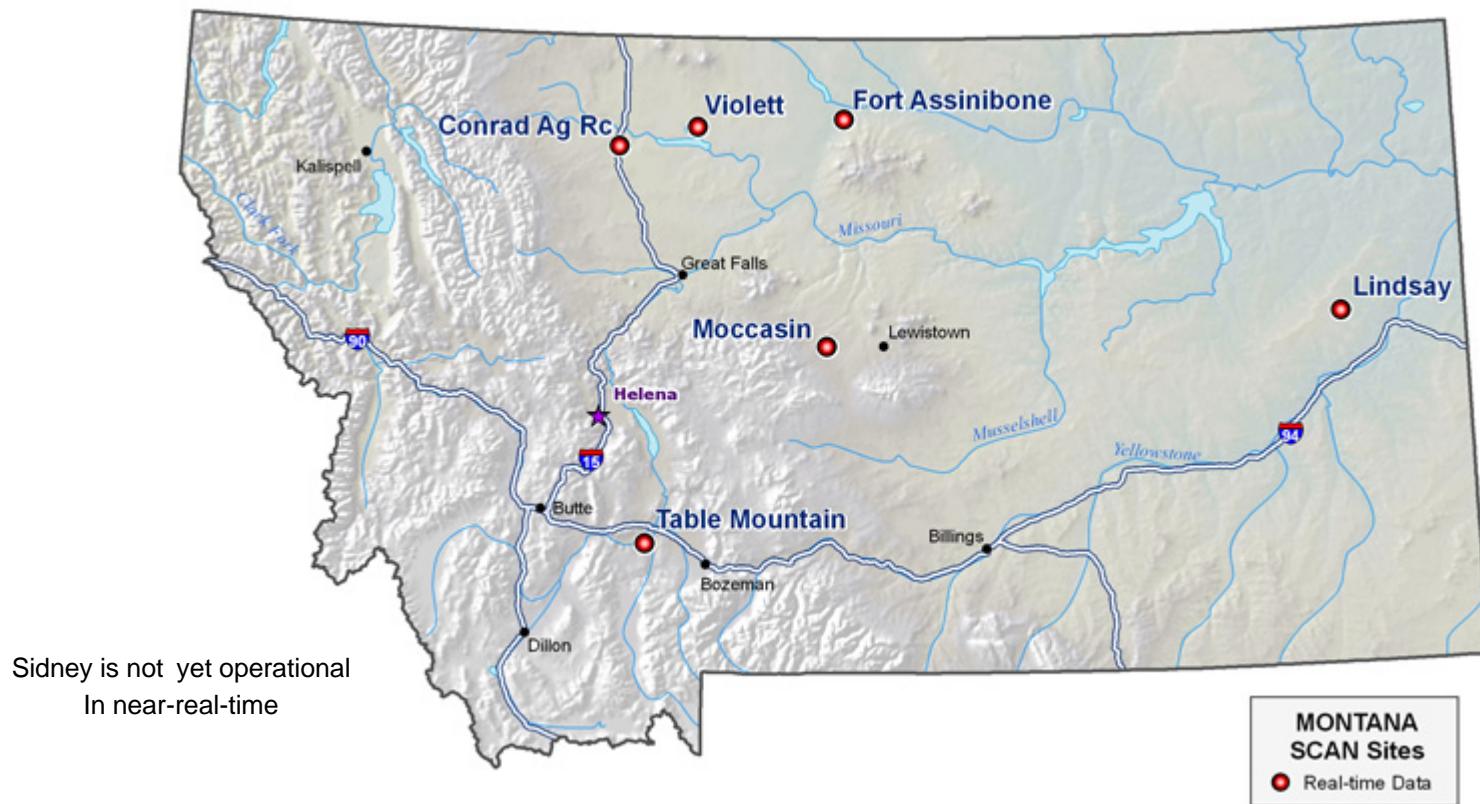
0      45      90 Miles

**NOTE:** Data used to generate  
this map are PROVISIONAL and  
SUBJECT TO CHANGE.

 Natural Resources  
Conservation Service  
<http://www.mt.nrcs.usda.gov>



# MONTANA SOIL CLIMATE ANALYSIS NETWORK (SCAN)



Web address for site data:

<http://www.wcc.nrcs.usda.gov/scan/Montana/montana.html>

For more information on the SCAN project contact:

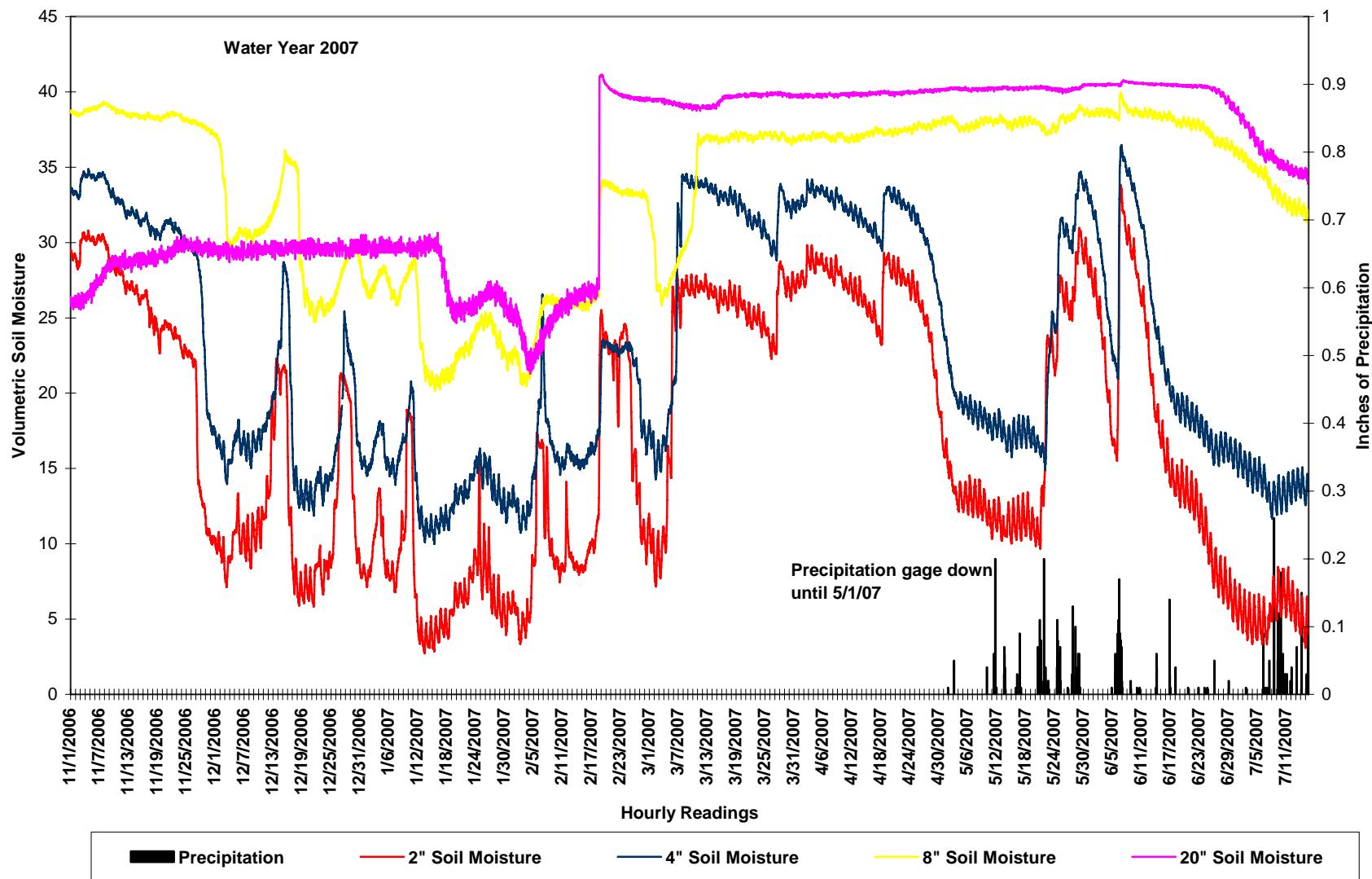
Chuck Gordon, State Soil Scientist

Email address [charles.gordon@mt.usda.gov](mailto:charles.gordon@mt.usda.gov)

Phone 406.587.6818

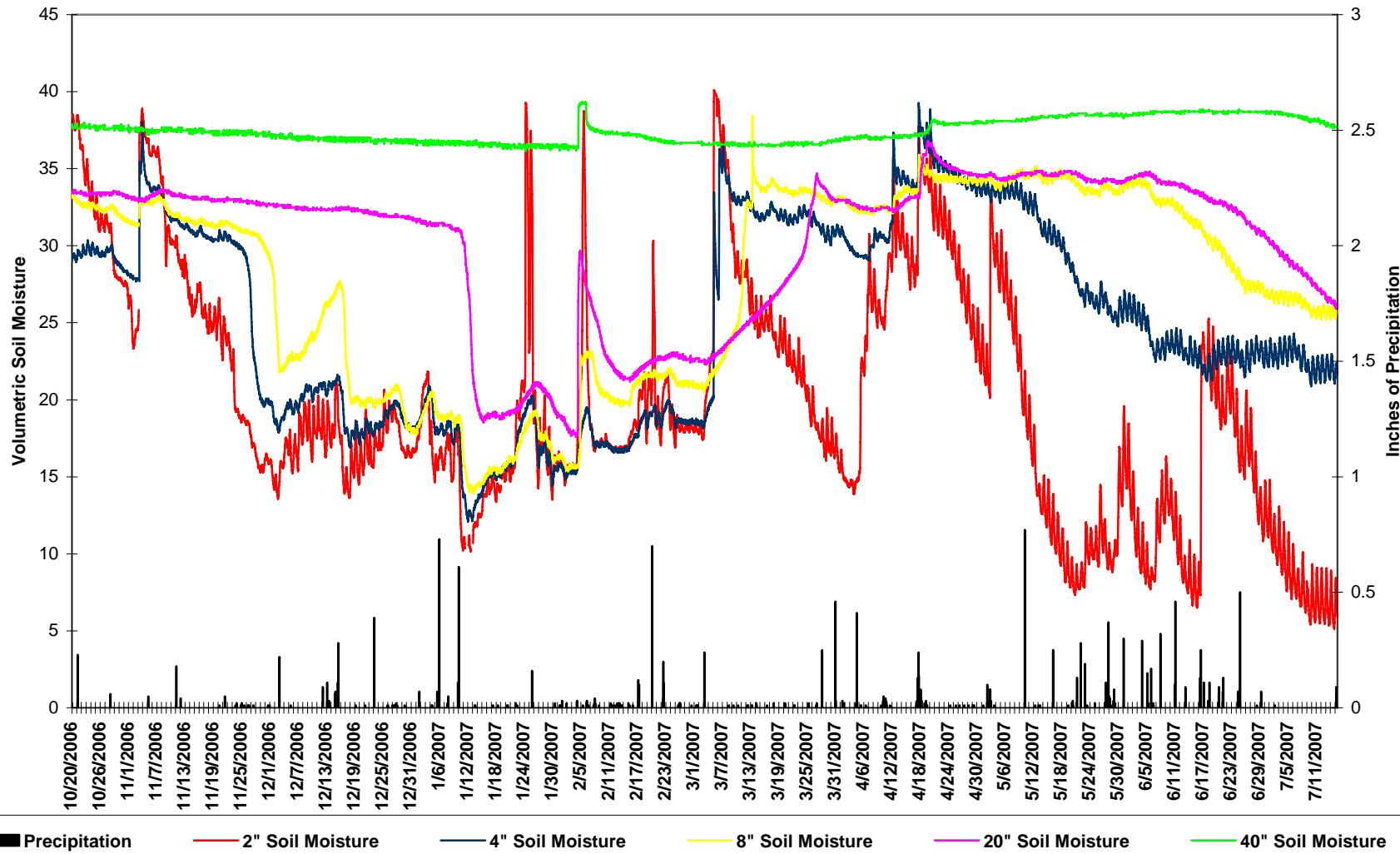
# GALLATIN COUNTY

**Table Mountain, MT**  
**Hourly Soil Moisture vs. Precipitation**  
**PRELIMINARY DATA SUBJECT TO CHANGE**



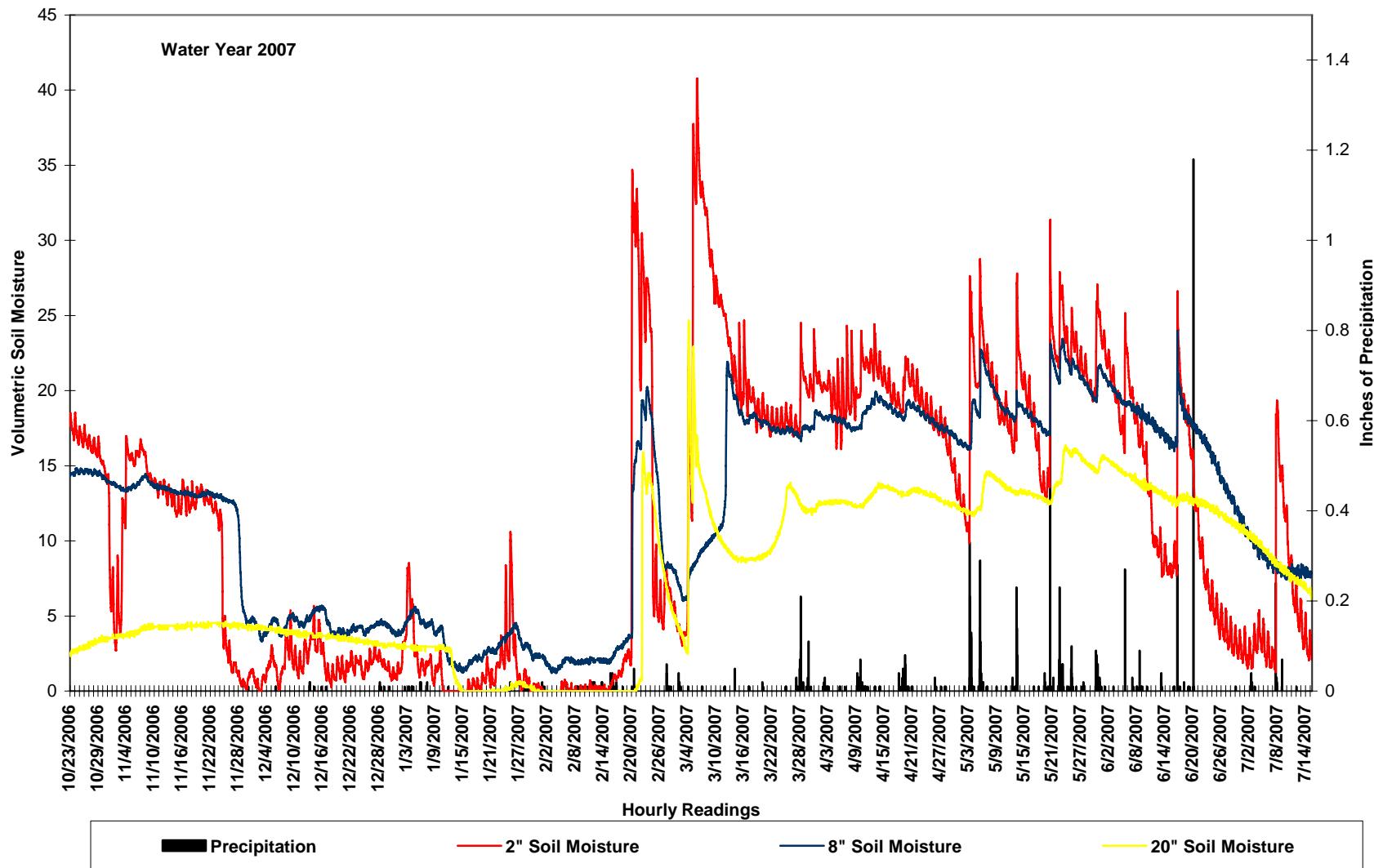
# PONDERA COUNTY

**Conrad AG RC, MT**  
**Soil Moisture vs. Precipitation**  
**PRELIMINARY DATA SUBJECT TO CHANGE**



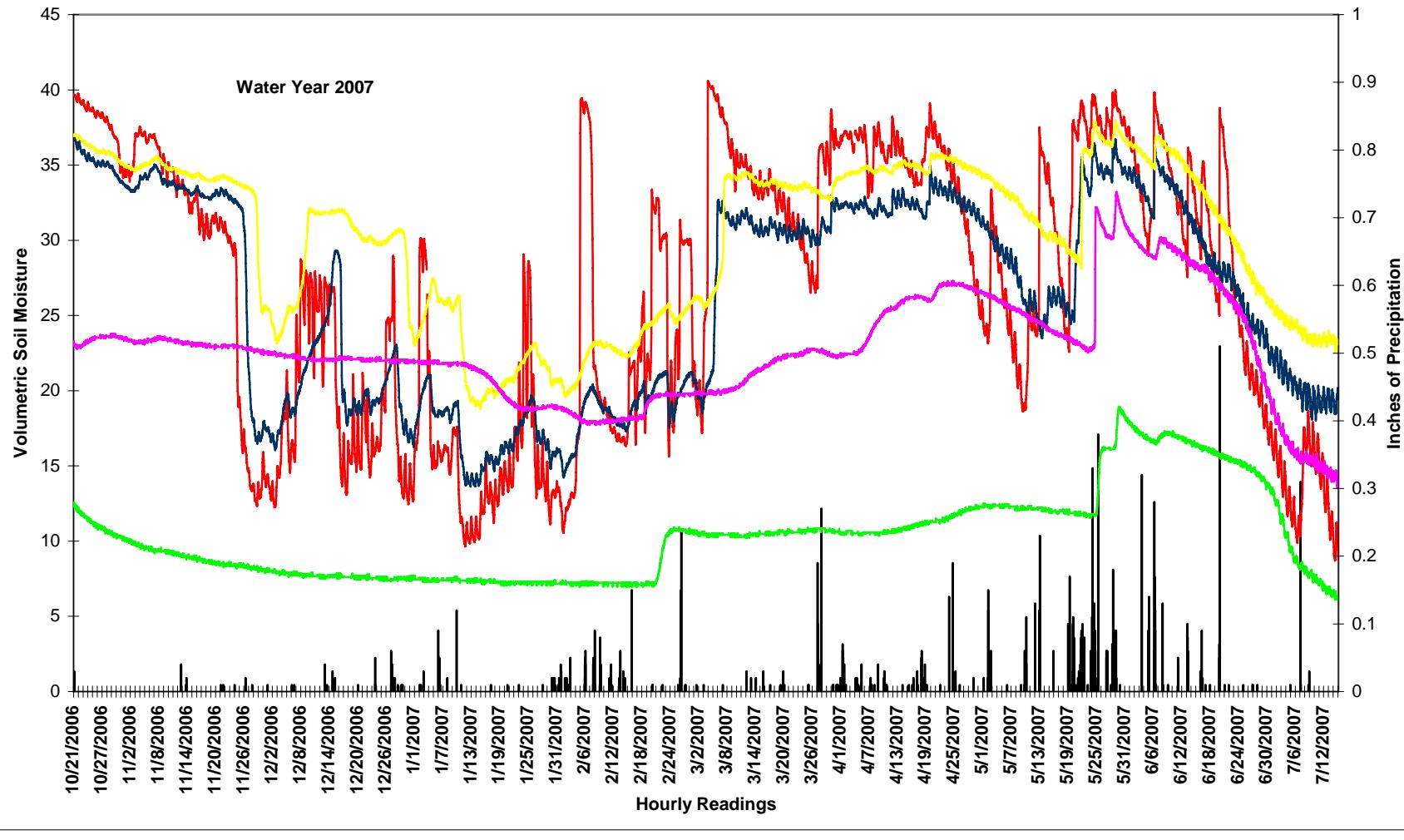
# DAWSON COUNTY

**Lindsay, MT**  
**Soil Moisture vs. Precipitation**  
**PRELIMINARY DATA SUBJECT TO CHANGE**



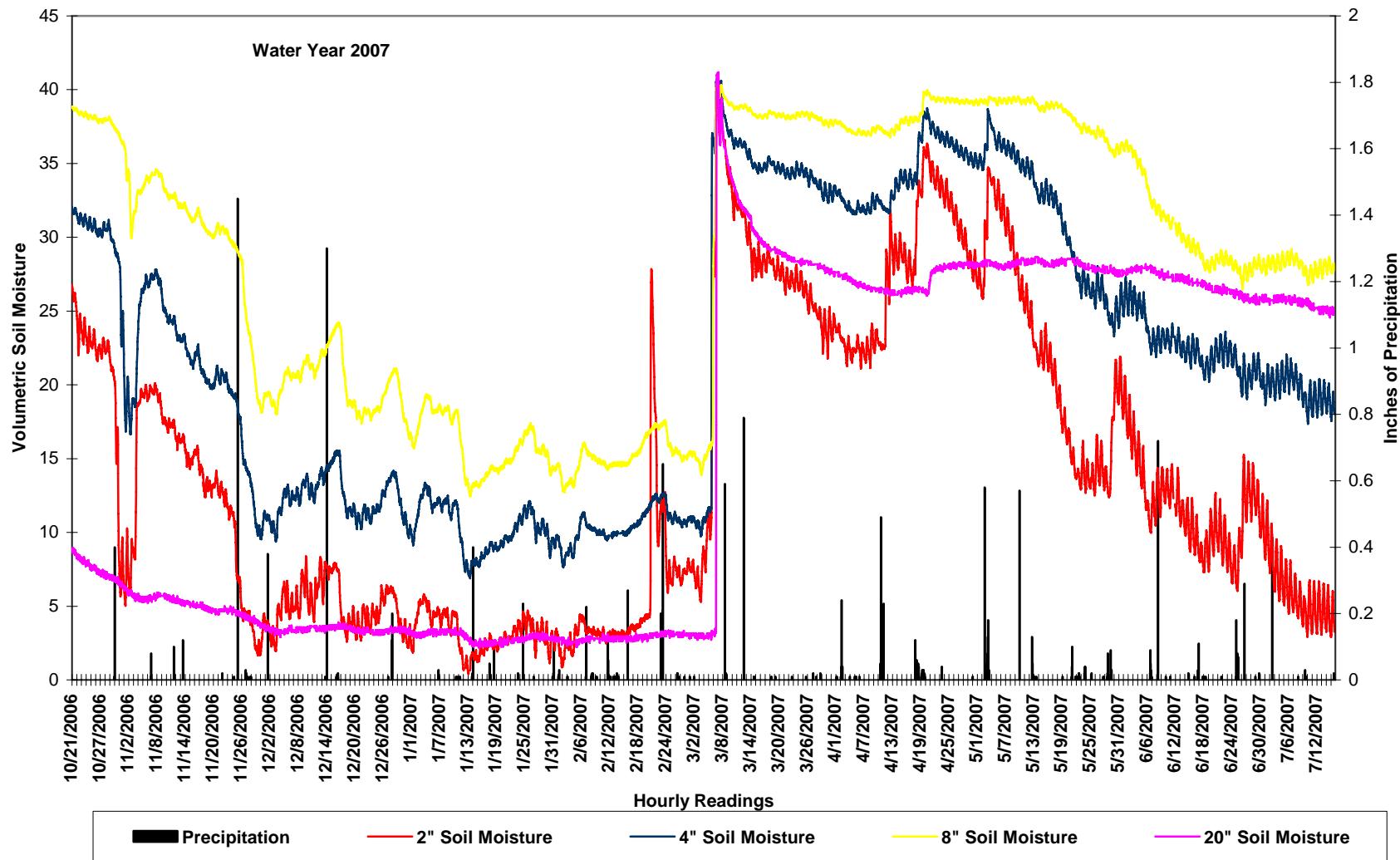
# JUDITH BASIN COUNTY

**Moccasin, MT**  
**Soil Moisture vs. Precipitation**  
**PRELIMINARY DATA SUBJECT TO CHANGE**



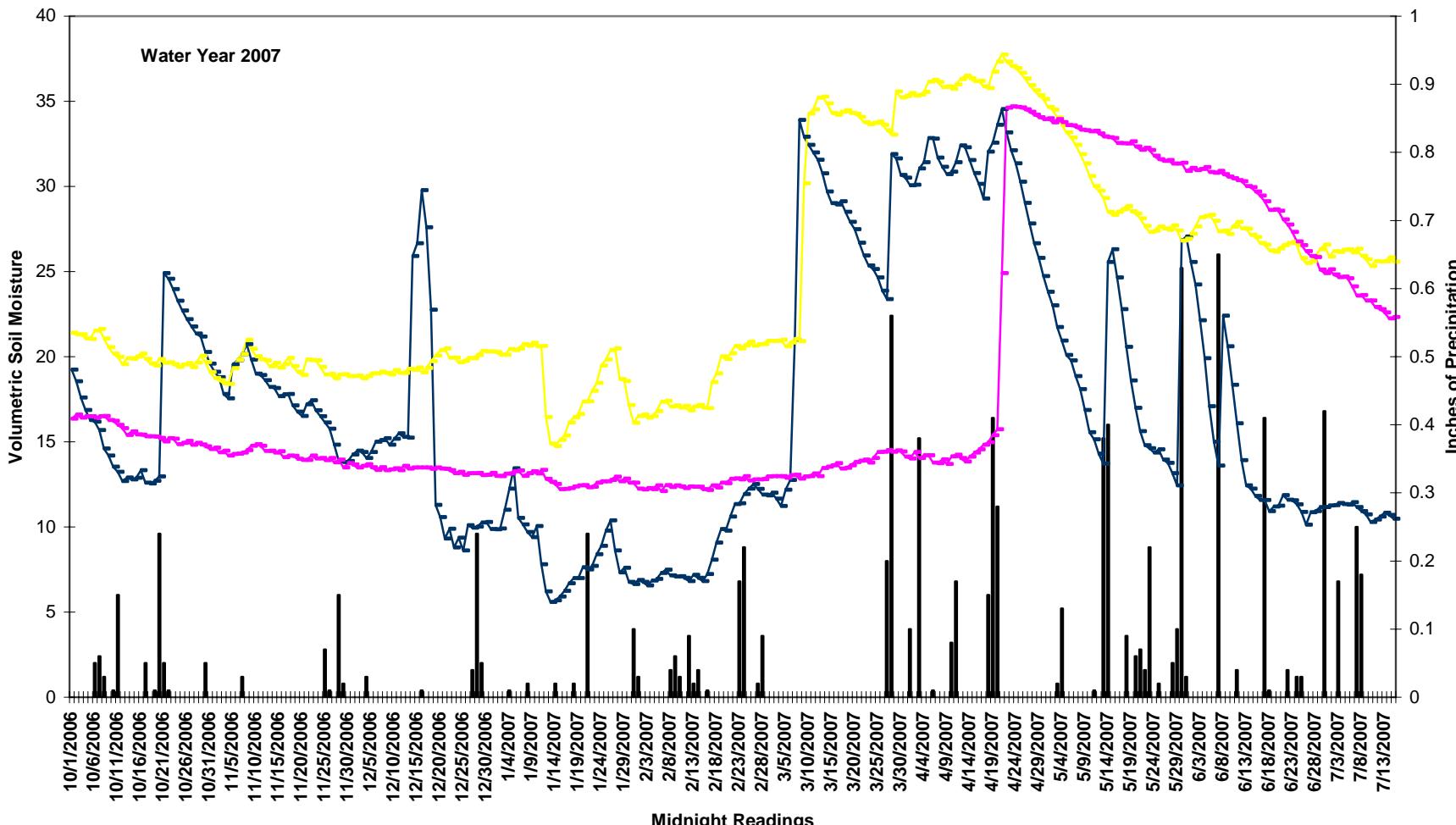
# LIBERTY COUNTY

Violett, MT  
Soil Moisture vs. Precipitation  
PRELIMINARY DATA SUBJECT TO CHANGE



# HILL COUNTY

**Fort Assiniboine  
Soil Moisture vs. Precipitation  
Preliminary Data Subject to Change**



# SUMMARY

- As expected, streamflows continue to recede with hot temperatures and little rainfall and several have reached critical thresholds for this time of year.
- Surface Water Supply Indexes in 19 watersheds have moderately dry (-2.0 to -2.9) indices and 12 watershed have extremely dry (-3.0 to -4.0) indices. Using July 1 data, there were 31 of 49, or 63%, of the watersheds in moderate to extreme categories.
- With high temperatures, wind, lack of rainfall, and plant demands, soil moisture continues to be depleted at all monitored depths through the soil profile.
- Heavy rains in late May and early June briefly helped increase flows but these benefits have been short term. Since the rain ended in June, conditions have worsened significantly. Record high temperatures along with a lack of precipitation are straining the Blackfoot basin's water resources and fisheries. Flows in the Blackfoot River are less than half of normal for this time of year and water temperatures have reached record highs and exceeded levels of concern for fish survival. Source: **Blackfoot Drought & Water Conservation Committee**